

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/04/03

Date Received: 08/28/03

Project: Metro Self Monitor, PO# M-10115A, F&BI 308292

Date Extracted: 09/03/03

Date Analyzed: 09/03/03

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Chromium</u> | <u>Copper</u> | <u>Nickel</u> | <u>Zinc</u> |
|-----------------------------------|-----------------|---------------|---------------|-------------|
| M-10115A 308292-01 | 0.68 | 0.34 | 0.40 | <0.10 |
| Method Blank | <0.05 | <0.05 | <0.05 | <0.10 |

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**QUALITY ASSURANCE RESULTS
FROM TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 308292-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | Relative Percent Difference | Acceptance Criteria |
|----------|-----------------|---------------|------------------|-----------------------------|---------------------|
| Chromium | mg/L (ppm) | 0.68 | 0.68 | 0 | 0-20 |
| Copper | mg/L (ppm) | 0.34 | 0.34 | 0 | 0-20 |
| Nickel | mg/L (ppm) | 0.40 | 0.40 | 0 | 0-20 |
| Zinc | mg/L (ppm) | <0.10 | <0.10 | nm | 0-20 |

Laboratory Code: 308292-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | % Recovery MS | Acceptance Criteria |
|----------|-----------------|-------------|---------------|---------------|---------------------|
| Chromium | mg/L (ppm) | 2 | 0.68 | 90 | 80-120 |
| Copper | mg/L (ppm) | 2 | 0.34 | 91 | 80-120 |
| Nickel | mg/L (ppm) | 4 | 0.40 | 96 | 80-120 |
| Zinc | mg/L (ppm) | 2 | <0.10 | 103 | 80-120 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | % Recovery LCS | % Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|----------|-----------------|-------------|----------------|-----------------|---------------------|----------------|
| Chromium | mg/L (ppm) | 2 | 92 | 93 | 80-120 | 1 |
| Copper | mg/L (ppm) | 2 | 91 | 93 | 80-120 | 2 |
| Nickel | mg/L (ppm) | 4 | 96 | 95 | 80-120 | 1 |
| Zinc | mg/L (ppm) | 2 | 98 | 97 | 80-120 | 1 |

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

308292

CM 08/28/03

ADI

AKC-0008675

SAMPLE CHAIN OF CUSTODY

Send Report To G. Thompson
 Company ALASKAN Copper
 Address 628 S. Harvard St
 City, State, ZIP Seattle WA 98134
 Phone # 206-382-8555 Fax # 206-382-4555

SAMPLERS (Signature)

PROJECT NAME/NO.

PO #

METRO SEC Monitor

M-1011SA

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

| Sample ID | Lab ID | Date | Time | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | | | | | Notes |
|-----------|--------|---------|-------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|--|--|--|--|-------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | | | | | |
| M-1011SA | 01 | 8/27/03 | 12:30 | H2O | 1 | | | | | | | | | | | |
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Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

G. Thompson

Nhan Phan

AEC

FBI

8/27/03

8/28/03

1:05pm

1:05pm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

September 9, 2003

DUPLICATE COPY

INVOICE # 03ACU0904-4

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M-10115A, F&BI 308292 - Results of testing
requested by Gerry Thompson for material submitted on August 28, 2003.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due \$ 80.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

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Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
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September 4, 2003

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

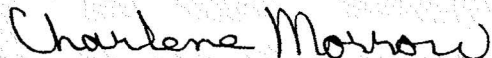
Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 28, 2003 from the Metro Self Monitor, PO# M-10115A, F&BI 308292 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0904R.DOC